What is claimed is:

1. A computer color matching method of paint, being a toning method of determining the blending ratio of colorants and luster color materials conforming to a target color by computation, when color matching a metallic and pearlescent paint composed of plural colorants and luster color materials, wherein the color of a paint as liquid varied in the volume formulation ratio of usable colorants and luster color materials is preliminarily measured by paint color measuring means, the data is stored in the memory of a computer, the color of each one of two or more paints adjusted in the blending ratio for realizing a target color is measured by paint color measuring means when color matching a metallic and pearlescent paint, a reproduced color is predicted and computed by using the measured data and the data on the memory and considering change in the calorimetric value due to difference in blending ratio of colorants and luster color materials, and an appropriate blending ratio of colorants and luster color materials is determined by computation.

2. The computer color matching method of paint of claim 1, wherein data of calorimetric values and blending ratio of paint composed of plural colorants and luster color materials in metallic and pearlescent paint is stored in the computer memory when predicting and computing the reproduced color by using the spectral reflectance measured in the method of claim 1, and the difference from the colorimetric value predicted by

29

the computing method in claim 1 is adjusted, and fuzzy inference is employed in the means for enhancing the color matching precision.

3. The computer color matching method of paint of claim 1, wherein the calorimetric means of paint supplies the paint continuously to the measuring position, and an illumination light is emitted and reflected to the paint supplied in the position, and the reflected light is examined by spectral analysis.

4. The computer color matching method of paint of claim 2, wherein the calorimetric means of paint supplies the paint continuously to the measuring position, and an illumination light is emitted and reflected to the paint supplied in the position, and the reflected light is examined by spectral analysis.

5. A computer color matching method of paint, being a color matching method of determining the blending ratio of colorants conforming to a target color by computation, when color matching a solid color paint composed of plural colorants, wherein the color of a paint as liquid varied in the blending ratio of usable colorants is preliminarily measured by paint color measuring means, the data is stored in the memory of a computer, the color of each one of two or more paints adjusted in the blending ratio for realizing a target color is measured by paint color measuring means when color matching a solid color paint, a reproduced color is predicted and computed by using the measured data and the data on the memory and considering

change in the calorimetric value due to difference in blending ratio of colorants, and an appropriate blending ratio of colorants is determined by computation.

6. The computer color matching method of paint of claim 5, wherein data of calorimetric values and blending ratio of paint composed of plural colorants in solid color paint is stored in the computer memory when predicting and computing the reproduced color by using the spectral reflectance measured in the method of claim 5, and the difference from the calorimetric value predicted by the computing method in claim 5 is adjusted, and fuzzy inference is employed in the means for enhancing the color matching precision.

7. The computer color matching method of paint of claim 5, wherein the calorimetric means of paint supplies the paint continuously to the measuring position, and an illumination light is emitted and reflected to the paint supplied in the position, and the reflected light is examined by spectral analysis.

8. The computer color matching method of paint of claim 6, wherein the calorimetric means of paint supplies the paint continuously to the measuring position, and an illumination light is emitted and reflected to the paint supplied in the position, and the reflected light is examined by spectral analysis.

9. A preparing method of paint for preparing a paint of a target color by applying the color matching method of claim 1 in the manufacturing process of paint, wherein the computer

judges if the calorimetric value is within a preset allowable range or not, and the manufacturing process of the target color paint is managed on the basis of this judgement.

10. The preparing method of paint for preparing a paint of a target color by applying the color matching method of claim 2 in the manufacturing process of paint, wherein the computer judges if the calorimetric value is within a preset allowable range or not, and the manufacturing process of the target color paint is managed on the basis of this judgement.

11. The preparing method of paint for preparing a paint of a target color by applying the color matching method of claim 3 in the manufacturing process of paint, wherein the computer judges if the calorimetric value is within a preset allowable range or not, and the manufacturing process of the target color paint is managed on the basis of this judgement.

12. The preparing method of paint for preparing a paint of a target color by applying the color matching method of claim 4 in the manufacturing process of paint, wherein the computer judges if the calorimetric value is within a preset allowable range or not, and the manufacturing process of the target color paint is managed on the basis of this judgement.

13. The preparing method of paint for preparing a paint of a target color by applying the color matching method of claim 5 in the manufacturing process of paint, wherein the computer judges if the calorimetric value is within a preset allowable range or not, and the manufacturing process of the target color paint is managed on the basis of this judgement.

14. The preparing method of paint for preparing a paint of a target color by applying the color matching method of claim 6 in the manufacturing process of paint, wherein the computer judges if the calorimetric value is within a preset allowable range or not, and the manufacturing process of the target color paint is managed on the basis of this judgement.

15. The preparing method of paint for preparing a paint of a target color by applying the color matching method of claim 7 in the manufacturing process of paint, wherein the computer judges if the calorimetric value is within a preset allowable range or not, and the manufacturing process of the target color paint is managed on the basis of this judgement.

16. The preparing method of paint for preparing a paint of a target color by applying the color matching method of claim 8 in the manufacturing process of paint, wherein the computer judges if the calorimetric value is within a preset allowable range or not, and the manufacturing process of the target color paint is managed on the basis of this judgement.